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=> file agriculture  
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CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

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CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> s glucanotransferase and alpha and transformation  
25 FILES SEARCHED...

L1 61 GLUCANOTRANSFERASE AND ALPHA AND TRANSFORMATION

=> s glucanotransferase and alpha and transform?  
25 FILES SEARCHED...

L2 131 GLUCANOTRANSFERASE AND ALPHA AND TRANSFORM?

=> duplicate remove l2

DUPLICATE IS NOT AVAILABLE IN 'BIOCOMMERCE, FEDRIP, FOREGE, GENBANK,  
INVESTEXT'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CABA, CAPLUS,  
ESBIOBASE, FSTA, GENBANK, IFIPAT, LIFESCI, PASCAL, SCISEARCH, USPATFULL'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L2

L3 105 DUPLICATE REMOVE L2 (26 DUPLICATES REMOVED)

=> s l3 and plant

8 FILES SEARCHED...

25 FILES SEARCHED...

L4 48 L3 AND PLANT

=> s 14 and 4-ALPHA-GLUCANOTRANSFERASE

16 FILES SEARCHED...

L5 8 L4 AND 4-ALPHA-GLUCANOTRANSFERASE

=> d 15 1-8

L5 ANSWER 1 OF 8 AGRICOLA

AN 1998:49597 AGRICOLA

DN IND21378974

TI Normal starch content and composition in tubers of antisense potato  
**plants lacking D-enzyme (4-alpha-glucanotransferase).**

AU Takaha, T.; Critchley, J.; Okada, S.; Smith, S.M.

AV DNAL (450 P693)

SO Planta, July 1998. Vol. 205, No. 3. p. 445-451

Publisher: Berlin ; New York : Springer-Verlag, 1925-

CODEN: PLANAB; ISSN: 0032-0935

NTE Includes references

CY Germany

DT Article

FS Non-U.S. Imprint other than FAO

LA English

L5 ANSWER 2 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2000:281897 BIOSIS

DN PREV200000281897

TI Corn **4-alpha-glucanotransferase.**

AU Broglie, Karen E. (1); Krebbers, Enno

CS (1) Newark, DE USA

ASSIGNEE: E. I. du Pont de Nemours and Company, Upper Marlboro, MD, USA

PI US 5994623 November 30, 1999

SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Nov. 30, 1999) Vol. 1228, No. 5, pp. No pagination. e-file.  
ISSN: 0098-1133.

DT Patent

LA English

L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS

AN 1998:682547 CAPLUS

DN 129:299048

TI **Plant 4-alpha-glucanotransferases**

and cDNAs and their expression in plant cells to alter levels of  
**glucanotransferase**

IN Broglie, Karen E.; Krebbers, Enno; Pearlstein, Richard W.

PA E.I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9845459	A1	19981015	WO 1998-US6737	19980407
	W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5994623	A	19991130	US 1997-838543	19970409
	AU 9868845	A1	19981030	AU 1998-68845	19980407
	EP 973919	A1	20000126	EP 1998-914506	19980407

R: DE, FR, GB  
BR 9815487 A 20011009 BR 1998-15487 19980407  
PRAI US 1997-838543 A2 19970409  
WO 1998-US6737 W 19980407

L5 ANSWER 4 OF 8 FSTA COPYRIGHT 2002 IFIS  
AN 1998(09):J2225 FSTA  
TI Normal starch content and composition in tubers of antisense potato  
plants lacking D-enzyme (4-.alpha.-  
glucanotransferase).  
AU Takaha, T.; Critchley, J.; Okada, S.; Smith, S. M.  
CS Correspondence (Reprint) address, S. M. Smith, Inst. of Cell & Molecular  
Biol., Univ. of Edinburgh, Edinburgh EH9 3JH, UK. Tel. 44 (131) 650 5318.  
Fax 44 (131) 650 5392. E-mail ssmith(a)srv0.bio.ed.ac.uk  
SO Planta, (1998), 205 (3) 445-451, 28 ref.  
ISSN: 0032-0935  
DT Journal  
LA English

L5 ANSWER 5 OF 8 GENBANK.RTM. COPYRIGHT 2002

LOCUS (LOC): BQ627921 GenBank (R)  
GenBank ACC. NO. (GBN): BQ627921  
CAS REGISTRY NO. (RN): 437392-02-4  
SEQUENCE LENGTH (SQL): 620  
MOLECULE TYPE (CI): mRNA; linear  
DIVISION CODE (CI): Expressed sequence tag  
DATE (DATE): 2 Jul 2002  
DEFINITION (DEF): sao65g09.y2 Gm-c1073 Glycine max cDNA clone SOYBEAN  
CLONE ID: Gm-c1073-4169 5' similar to TR:O22198 O22198  
PUTATIVE 4-ALPHA-  
GLUCANOTRANSFERASE. ;, mRNA sequence.

SOURCE: soybean.  
ORGANISM (ORGN): Glycine max  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta;  
Tracheophyta; Spermatophyta; Magnoliophyta;  
eudicotyledons; core eudicots; Rosidae; eurosids I;  
Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine

NUCLEIC ACID COUNT (NA): 198 a 123 c 117 g 182 t

COMMENT:

Contact: Shoemaker R/Public Soybean EST Project  
Public Soybean EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu  
This clone is available through: ResGen, Invitrogen Corp. 2130  
South Memorial Parkway Huntsville, AL 35801 For further information  
call: (800)-533-4363 or contact: ccu@resgen.com web site:  
www.resgen.com  
Seq primer: -40RP from Gibco  
High quality sequence stop: 424.

REFERENCE: 1 (bases 1 to 620)  
AUTHOR (AU): Shoemaker,R.; Keim,P.; Vodkin,L.; Erpelding,J.;  
Coryell,V.; Khanna,A. ; Bolla,B.; Marra,M.; Hillier,L.;  
Kucaba,T.; Martin,J.; Beck,C.; Wylie,T.; Underwood,K.;  
Steptoe,M.; Theising,B.; Allen,M.; Bowers,Y. ;  
Person,B.; Swaller,T.; Gibbons,M.; Pape,D.; Harvey,N.;  
Schurk,R. ; Ritter,E.; Kohn,S.; Shin,T.; Jackson,Y.;  
Cardenas,M.; McCann,R. ; Waterston,R.; Wilson,R.  
TITLE (TI): Public Soybean EST Project  
JOURNAL (SO): Unpublished (1999)

## FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..620	/organism="Glycine max" /db-xref="taxon:3847" /clone="SOYBEAN CLONE ID: Gm-c1073-4169" /clone-lib="Gm-c1073" /tissue-type="seedlings induced for symptoms of SDS (Sudden Death Syndrome) disease" /dev-stage="2-3 weeks old" /lab-host="DH10B" /note="Vector: pBluescript II SK+; Site-1: EcoRI; Site-2: XhoI; The cDNA library was constructed from mRNA isolated from 2-3 week old seedlings that were induced for symptoms of SDS (Sudden Death Syndrome) disease by the translocation of culture filtrate of Fusarium solani f. sp. glycines (Plant Cell Report 18:375-380). Cultivar Williams 82 is susceptible to the disease SDS. Plant tissue (expanded leaves, folded leaves, and new shoots) were collected at 1, 6, 24, and 48 hrs. after inoculation and their mRNA pooled equally for cDNA construction. The library was prepared using the Stratagene pBluescript II SK(+) library construction kit. Complementary DNA was synthesized from mRNA using a primer consisting of a poly(dT) sequence with an XhoI restriction site. EcoRI adaptors were ligated to the blunt-ended cDNA fragments followed by XhoI digestion. The cDNA insert is protected from XhoI digestion via methylation during first strand synthesis. The cDNA fragments were directionally cloned into the EcoRI-XhoI restriction site of the pBluescript vector. The ligated cDNA fragments were transformed into E.coli ElectroMax DH10B host cells. Plants were inoculated by Shuxian Li (Glen Hartman lab, University of Illinois). Library was constructed by Reena Philip and Steve Clough (Lila Vodkin lab, University of Illinois)." 

## SEQUENCE (SEQ):

```

1 atcttcctc ttcaggactt gctagcatta aaagaagaat atacaacacg ccctgcaaca
61 gaggagacaa tcaatgaccc tacgaatccg aagcactatt ggagattccg tgtgcatgtg
121 acttttggaat cattgatcaa ggataatgac ctccaaacca ccatcaaaga tctcgtcagt
181 tggagtggaa gatcacttct taaggaagac gactcagaaa tagaagcgag cccagtgtcg
241 gtgttgtcag cagcagaagc tctttctgag aagcagaagt ttgccagtac cacggaaaag
301 cctgttcttg tcaaataaaa attgtagctg atgttattca tgctagtcct tcaaatacata
361 ttatatccta taacctgcta agatgaagat aacaataagg atcatccgtg ctctgttcca

```

421 tctgttttgca ttatgtttct taatgaagtc tacaaataaa tcttgatgca tgtattgttt  
 481 atgtcctgcc cataagttgt agcttttata ataataagtaa tagtaattat aagaggctact  
 541 ccgtactcat aatgcaagt taaataaaac aatattgtgc aacatttaag tcaggctttc  
 601 tgcttgatac tcactggcct

L5 ANSWER 6 OF 8 GENBANK.RTM. COPYRIGHT 2002

LOCUS (LOC): BQ298875 GenBank (R)  
 GenBank ACC. NO. (GBN): BQ298875  
 CAS REGISTRY NO. (RN): 424100-95-8  
 SEQUENCE LENGTH (SQL): 398  
 MOLECULE TYPE (CI): mRNA; linear  
 DIVISION CODE (CI): Expressed sequence tag  
 DATE (DATE): 16 May 2002  
 DEFINITION (DEF): sao52a05.y1 Gm-c1073 Glycine max cDNA clone SOYBEAN

CLONE ID: Gm-c1073-2698 5' similar to TR:O22198 O22198  
 PUTATIVE 4-**ALPHA**-**GLUCANOTRANSFERASE**. ;, mRNA sequence.

SOURCE: soybean.  
 ORGANISM (ORGN): Glycine max  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta;  
 Tracheophyta; Spermatophyta; Magnoliophyta;  
 eudicotyledons; core eudicots; Rosidae; eurosids I;  
 Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine

NUCLEIC ACID COUNT (NA): 126 a 81 c 77 g 114 t  
 COMMENT:

Contact: Shoemaker R/Public Soybean EST Project  
 Public Soybean EST Project  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@watson.wustl.edu  
 This clone is available through: ResGen, Invitrogen Corp. 2130  
 South Memorial Parkway Huntsville, AL 35801 For further information  
 call: (800)-533-4363 or contact: ccu@resgen.com web site:  
 www.resgen.com  
 Seq primer: -40RP from Gibco.

REFERENCE: 1 (bases 1 to 398)  
 AUTHOR (AU): Shoemaker,R.; Keim,P.; Vodkin,L.; Erpelding,J.;  
 Coryell,V.; Khanna,A. ; Bolla,B.; Marra,M.; Hillier,L.;  
 Kucaba,T.; Martin,J.; Beck,C.; Wylie,T.; Underwood,K.;  
 Steptoe,M.; Theising,B.; Allen,M.; Bowers,Y. ;  
 Person,B.; Swaller,T.; Gibbons,M.; Pape,D.; Harvey,N.;  
 Schurk,R. ; Ritter,E.; Kohn,S.; Shin,T.; Jackson,Y.;  
 Cardenas,M.; McCann,R. ; Waterston,R.; Wilson,R.  
 TITLE (TI): Public Soybean EST Project  
 JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..398	/organism="Glycine max" /db-xref="taxon:3847" /clone="SOYBEAN CLONE ID: Gm-c1073-2698" /clone-lib="Gm-c1073" /tissue-type="seedlings induced for symptoms of SDS (Sudden Death Syndrome) disease" /dev-stage="2-3 weeks old" /lab-host="DH10B" /note="Vector: pBluescript II SK+; Site-1: EcoRI; Site-2: XhoI; The

cdNA library was constructed from mRNA isolated from 2-3 week old seedlings that were induced for symptoms of SDS (Sudden Death Syndrome) disease by the translocation of culture filtrate of *Fusarium solani* f. sp. *glycines* (Plant Cell Report 18:375-380). Cultivar Williams 82 is susceptible to the disease SDS. Plant tissue (expanded leaves, folded leaves, and new shoots) were collected at 1, 6, 24, and 48 hrs. after inoculation and their mRNA pooled equally for cdNA construction. The library was prepared using the Stratagene pBluescript II SK(+) library construction kit. Complementary DNA was synthesized from mRNA using a primer consisting of a poly(dT) sequence with an XhoI restriction site. EcoRI adaptors were ligated to the blunt-ended cdNA fragments followed by XhoI digestion. The cdNA insert is protected from XhoI digestion via methylation during first strand synthesis. The cdNA fragments were directionally cloned into the EcoRI-XhoI restriction site of the pBluescript vector. The ligated cdNA fragments were transformed into *E. coli* ElectroMax DH10B host cells. Plants were inoculated by Shuxian Li (Glen Hartman lab, University of Illinois). Library was constructed by Reena Philip and Steve Clough (Lila Vodkin lab, University of Illinois)."

SEQUENCE (SEQ) :

```

1 cctacgaatc cgaagcacta ttggagatac cgtgtgcatg tgactttgga atcactgac
61 aaagataatg acctccaaac cgccatcaaa gatctcgtac gttggagtgg aagatcactc
121 cctaaggaag acgactcaga agtagaagtg agcccgagtgt cggcgttgtc atcagcagaa
181 gctctttctg agaagcagca gtttgccggt accatggaaa agcctgttct tgtcaaataa
241 aaattgtagc tgatgttatt catgctagct cttcaaatca tattatatcc tataatctgc
301 taccttgaag ataacaacaa taaggatcat ccttggtata tgttccatct gtttgcatta
361 tgtttcttaa taaagaatac aaataaatct tgatgcaa

```

```

L5  ANSWER 7 OF 8  USPATFULL
AN  2002:221971  USPATFULL
TI  ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES
IN  KUNSCH, CHARLES A., ATLANTA, GA, UNITED STATES
    DILLON, PATRICK J., CARLSBAD, CA, UNITED STATES
    BARASH, STEVEN, ROCKVILLE, MD, UNITED STATES
PI  US 2002120116      A1  20020829
AI  US 1998-70927      A1  19980504 (9)
DT  Utility
FS  APPLICATION
LN.CNT 13315
INCL  INCLM: 536/023.200
      INCLS: 435/069.100; 435/070.100; 435/071.100; 435/252.300; 435/320.100;
          530/350.000; 530/387.900; 800/013.000

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NCL NCLM: 536/023.200  
 NCLS: 435/069.100; 435/070.100; 435/071.100; 435/252.300; 435/320.100;  
 530/350.000; 530/387.900; 800/013.000  
 IC [7]  
 ICM: C07K016-00  
  
 L5 ANSWER 8 OF 8 USPATFULL  
 AN 2000:171190 USPATFULL  
 TI Modified starch from **plants, plants** synthesizing  
 this starch, and processes for its preparation  
 IN Kossmann, Jens, Golmer Fichten 9, Golm 14476, Germany, Federal Republic  
 of  
 Springer, Franziska, Muhlenstr. 1, Berlin 14167, Germany, Federal  
 Republic of  
 Buttcher, Volker, Hundebreite 39, Lauenforde 37697, Germany, Federal  
 Republic of  
 PI US 6162966 20001219  
 WO 9627674 19960912  
 AI US 1998-913671 19980202 (8)  
 WO 1996-EP1007 19960308  
 19980202 PCT 371 date  
 19980202 PCT 102(e) date  
 PRAI DE 1995-19509695 19950308  
 DT Utility  
 FS Granted  
 LN.CNT 1266  
 INCL INCLM: 800/284.000  
 INCLS: 800/286.000; 800/317.200; 435/101.000; 435/193.000; 435/419.000;  
 435/468.000; 536/023.600  
 NCL NCLM: 800/284.000  
 NCLS: 435/101.000; 435/193.000; 435/419.000; 435/468.000; 536/023.600;  
 800/286.000; 800/317.200  
 IC [7]  
 ICM: A01H005-00  
 ICS: A01H005-06; C12N015-29; C12N015-82  
 EXF 800/284; 800/286; 800/298; 800/317.2; 435/419; 435/468; 435/193;  
 435/101; 536/23.6  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 1 OF 7 AGRICOLA DUPLICATE 1  
 AN 2001:73174 AGRICOLA  
 DN IND23227281  
 TI A critical role for disproportionating enzyme in starch breakdown is revealed by a knock-out mutation in Arabidopsis.  
 AU Critchley, J.H.; Zeeman, S.C.; Takaha, T.; Smith, A.M.; Smith, S.M.  
 SO The Plant journal : for cell and molecular biology, Apr 2001. Vol. 26, No. 1. p. 89-100  
 Publisher: Oxford : Blackwell Sciences Ltd.  
 ISSN: 0960-7412  
 NTE Includes references  
 CY England; United Kingdom  
 DT Article  
 FS Non-U.S. Imprint other than FAO  
 LA English

L3 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 AN 2001:44125 BIOSIS  
 DN PREV200100044125  
 TI The Saccharomyces cerevisiae YPR184w gene encodes the glycogen debranching enzyme.  
 AU Teste, Marie Ange; Enjalbert, Brice; Parrou, Jean Luc; Francois, Jean M. (1)  
 CS (1) Centre de Bioingenierie Gilbert Durand, Departement de Genie Biochimique et Alimentaire, Complexe Scientifique de Rangueil, UMR-CNRS 5504, UR-INRA 792, 31077, Toulouse Cedex 04: fran\_jm@insa-tlse.fr France  
 SO FEMS Microbiology Letters, (1 December, 2000) Vol. 193, No. 1, pp. 105-110. print.  
 ISSN: 0378-1097.  
 DT Article  
 LA English  
 SL English

L3 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS  
 AN 1999:811373 CAPLUS  
 DN 132:45849  
 TI Chlamydomonas enzyme D and cDNA and method of altering starch structure in plants  
 IN Ball, Steven  
 PA Biogemma, Fr.  
 SO PCT Int. Appl., 52 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9966056	A1	19991223	WO 1999-FR1446	19990616
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2779740	A1	19991217	FR 1998-7589	19980616
	FR 2779740	B1	20020628		
	AU 9941511	A1	20000105	AU 1999-41511	19990616
	EP 1088089	A1	20010404	EP 1999-925114	19990616
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRAI FR 1998-7589 A 19980616  
WO 1999-FR1446 W 19990616  
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 7 AGRICOLA DUPLICATE 2  
AN 1999:76468 AGRICOLA  
DN IND22011499  
TI Biochemical characterization of the *Chlamydomonas reinhardtii*  
**alpha-1,4 glucanotransferase**  
supports a direct function in amylopectin biosynthesis.  
AU Colleoni, C.; Dauvillee, D.; Mouille, G.; Morell, M.; Samuel, M.;  
Slomiany, M.C.; Lienard, L.; Wattebled, F.; D'Hulst, C.; Ball, S.  
CS Universite des Sciences et Technologies de Lille, Villeneuve, France.  
AV DNAL (450 P692)  
SO Plant physiology, Aug 1999. Vol. 120, No. 4. p. 1005-1014  
Publisher: Rockville, MD : American Society of Plant Physiologists, 1926-  
CODEN: PLPHAY; ISSN: 0032-0889  
NTE Includes references  
CY Maryland; United States  
DT Article; Conference  
FS U.S. Imprints not USDA, Experiment or Extension  
LA English

L3 ANSWER 5 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3  
AN 1999:431909 BIOSIS  
DN PREV199900431909  
TI Genetic and biochemical evidence for the involvement of **alpha-1,4 glucanotransferases** in amylopectin synthesis.  
AU Colleoni, Christophe; Dauvillee, David; Mouille, Gregory; Buleon, Alain; Gallant, Daniel; Bouchet, Brigitte; Morell, Matthew; Samuel, Michael; Delrue, Brigitte; d'Hulst, Christophe; Bliard, Christophe; Nuzillard, Jean-Marc; Ball, Steven (1)  
CS (1) Laboratoire de Chimie Biologique, Unite Mixte de Recherche du Centre National de la Recherche Scientifique no. 8576, Universite des Sciences et Technologies de Lille, 59655, Villeneuve D'Ascq cedex France  
SO Plant Physiology (Rockville), (Aug., 1999) Vol. 120, No. 4, pp. 993-1003. ISSN: 0032-0889.  
DT Article  
LA English  
SL English

L3 ANSWER 6 OF 7 FSTA COPYRIGHT 2002 IFIS  
AN 2000(02):L0059 FSTA  
TI Biochemical characterization of the *Chlamydomonas reinhardtii* .  
**alpha.-1,4 glucanotransferase**  
supports a direct function in amylopectin biosynthesis.  
AU Colleoni, C.; Dauvillee, D.; Mouille, G.; Morell, M.; Samuel, M.; Slomiany, M. C.; Lienard, L.; Wattebled, F.; d'Hulst, C.; Ball, S.  
CS Correspondence (Reprint) address, S. Ball, Lab. de Chimie Biol., Unite Mixte de Recherche du Cent. Nat. de la Recherche Sci. No. 8576, Univ. des Sci. et Tech. de Lille, 59655 Villeneuve d'Ascq Cedex, France. Fax 33-3-20-43-65-55. E-mail steven.ball(a)univ.lille1.fr  
SO Plant Physiology, (1999), 120 (4) 1005-1014, 23 ref. ISSN: 0032-0889  
DT Journal  
LA English

L3 ANSWER 7 OF 7 FROSTI COPYRIGHT 2002 LFRA  
AN 519131 FROSTI  
TI Method for obtaining modified polysaccharides.  
IN Ball S.  
PA Biogemma

SO PCT Patent Application  
PI WO 9966056 A1  
AI 19990616  
PRAI France 19980616  
DT Patent  
LA French  
SL French; English